

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number  
**WO 2005/049198 A1**

- (51) International Patent Classification<sup>7</sup>: **B01J 20/32**,  
20/26, 20/10, B01D 15/08, G01N 30/48
- (21) International Application Number:  
PCT/EP2004/012712
- (22) International Filing Date:  
10 November 2004 (10.11.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
03025829.7 10 November 2003 (10.11.2003) EP
- (71) Applicant (for all designated States except US): **NEXT-TEC GMBH** [DE/DE]; Hemmelrather Weg 201, 51377 Leverkusen (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **LEISER, Robert-Matthias** [DE/DE]; Dunkelnberger Str. 30, 42697 Solingen (DE). **KAPOUSTINE, Dimitri Valer-jewich** [RU/RU]; ul. Ostrovitianova, d. 18, kopr. 2, kv. 120, Moskau, 117321 (RU). **ZUBOV, Vitali Pavlovich** [RU/RU]; Zvenigorodskaya ul. D. kv.8, Moskau, 121443 (RU). **BALAYAN, Hamlet** [AM/AM]; Tigran Metsi 61, Apt. 26, Yerevan, 375005 (AM). **PLOBNER, Lutz** [DE/DE]; Beckhauser Str. 9, 40699 Erkrath (DE).
- (74) Agents: **MEYERS, Hans-Wilhelm** et al.; Postfach 10 22 41, 50462 Köln (DE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A COMPOSITE POLYMER-COATED SORBENT WITH A BIDISPERSE PORE SIZE DISTRIBUTION FOR THE SIMULTANEOUS SEPARATION AND DESALTING OF BIOPOLYMERS

(57) Abstract: A composite polymer-coated sorbent with a bidisperse or oligodisperse distribution of pore sizes and having an at least partial coating on its surface, which coating comprises essentially polyanilines or derivatives of polyanilines and use thereof for the simultaneous separation and desalting of bio-macromolecules.

WO 2005/049198 A1